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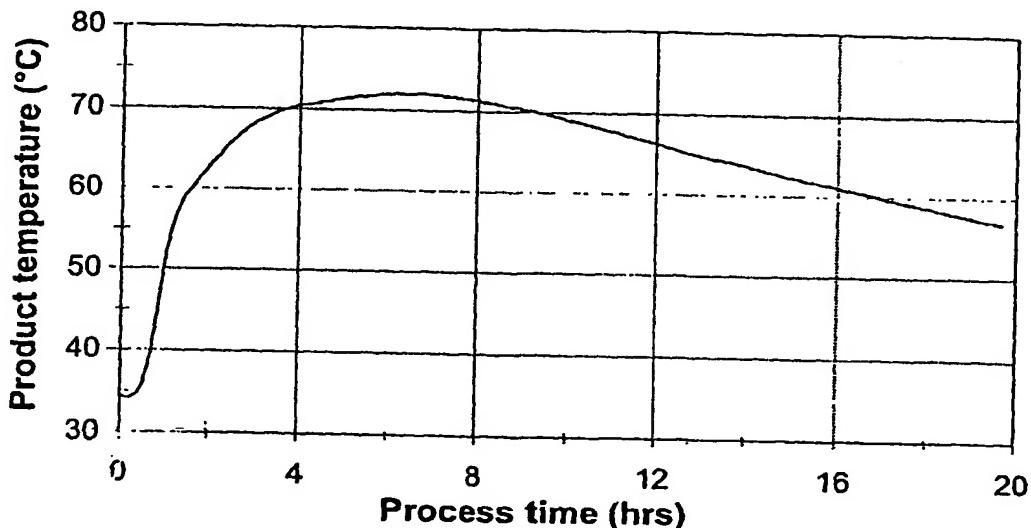
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(54) Title: CEMENTITIOUS PRODUCTS



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- (57) Abstract: A method of manufacturing a porous cementitious product, which method comprises: forming a cementitious premix; casting the premix in a desired configuration; generating gas bubbles within the premix; and curing the premix, wherein gas bubbles are generated and/or collapsed at specific locations within the premix in order to produce a porosity profile along a cross-section of the product such that the product comprises a relatively low density core region and higher density outer regions. A method of manufacturing a porous cementitious product, which method comprises: forming a cementitious premix; casting the premix in a desired configuration; generating gas bubbles within the premix; and curing the premix, wherein gas bubbles are generated and/or collapsed at specific locations within the premix in order to produce a porosity profile along a cross-section of the product such that the product comprises a relatively low density core region and higher density outer regions.



MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000055

A. CLASSIFICATION OF SUBJECT MATTER												
Int. Cl. ⁷ : C04B 38/02, 22/04												
<u>According to International Patent Classification (IPC) or to both national classification and IPC</u>												
B. FIELDS SEARCHED												
Minimum documentation searched (classification system followed by classification symbols) C04B 21/00 - 21/12, 22/04, 38/02												
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched												
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPAT, Espace@net, IPC (above) and keywords												
C. DOCUMENTS CONSIDERED TO BE RELEVANT												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
P,X	WO 2003/022776 A (NEWCON INTERNATIONAL Ltd), 20 March 2003 Whole document	1-4, 8-9, 13-14, 16-18, 27-29, 31-34										
X	US 5775047 A (JENSEN), 7 July 1998 Whole document	1-4, 8-9, 13-14, 16-19, 28-29, 31-34										
Y	Patent Abstracts of Japan JP 07-138084 A (SUMITOMO OSAKA CEMENT Co. Ltd. YOOTAI:KK), 30 May 1995 See abstract & JP 07-138084 A, paragraphs [0019]-[0026]	1-4, 8-9, 13-14, 16-19, 28-29, 31-34										
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex												
<p>* Special categories of cited documents:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%; vertical-align: top;"> "A" document defining the general state of the art which is not considered to be of particular relevance </td> <td style="width: 25%; vertical-align: top;"> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory </td> </tr> <tr> <td style="vertical-align: top;"> "E" earlier application or patent but published on or after the international filing date </td> <td style="vertical-align: top;"> "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone </td> </tr> <tr> <td style="vertical-align: top;"> "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) </td> <td style="vertical-align: top;"> "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art </td> </tr> <tr> <td style="vertical-align: top;"> "O" document referring to an oral disclosure, use, exhibition or other means </td> <td style="vertical-align: top;"> "&" document member of the same patent family </td> </tr> <tr> <td style="vertical-align: top;"> "P" document published prior to the international filing date but later than the priority date claimed </td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory	"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
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"P" document published prior to the international filing date but later than the priority date claimed												
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Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6283 3929		Authorized officer ALBERT S. J. YONG Telephone No : (02) 6283 2160										

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/AU2004/000055

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	Patent Abstracts of Japan JP 2002-326882 A (ASAHI KASEI Corp.), 12 November 2002 See abstract & JP 2002-326882 A, paragraphs [0008]-[0012]	33-34 1-4, 8-9, 13- 14, 16-19, 28- 29, 31-34

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/000055

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member	
WO	03022776	HK	1042818
US	5775047	CA	2204933
JP	07138084		
US	5762841		
JP	02326882		

END OF ANNEX